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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,301	05/23/2006	Christian Hamm-Dubischar	060732-US	4124
	7590 05/27/200 S OF KARK HORMAI	EXAMINER		
P.O. BOX 3815		CHAWAN, SHEELA C		
CAMBRIDGE, MA 02238-1516			ART UNIT	PAPER NUMBER
			2624	
			MAIL DATE	DELIVERY MODE
			05/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	n No.	Applicant(s)				
Office Action Summary		10/580,30	1	HAMM-DUBISCHAR, CHRISTIAN				
		Examiner		Art Unit				
		SHEELA C		2624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Respons	ive to communication(s) filed on 09	February 200	7					
· <u> </u>		-						
<i>'</i> —								
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Closed II	raccordance with the practice unde	LX parte Que	iyle, 1900 O.D. 11, 40	.J. O.G. 215.				
Disposition of Cla	aims							
 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-13 are subject to restriction and/or election requirement. 								
Application Pape	rs							
9) <mark></mark> The spec	ification is objected to by the Exami	iner.						
10)∐ The draw	ing(s) filed on is/are: a)∏ a	ccepted or b)[\square objected to by the E	Examiner.				
Applicant	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35	U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of Refere			4) Interview Summary	(PTO-413)				
	erson's Patent Drawing Review (PTO-948) osure Statement(s) (PTO/SB/08) Date		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application/Control Number: 10/580,301 Page 2

Art Unit: 2624

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack unity of invention because they are not so

linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species I: drawn to a method of determining the structural data of a prototype for

a lightweight technical structure (Figure 1).

Species II: drawn to a prototype for a lightweight rim for an automotive vehicle

(Figures 5-7, 11 and 13).

2. Applicant is required, in reply to this action, to elect a single species to which the

claims shall be restricted if no generic claim is finally held to be allowable. The reply

must also identify the claims readable on the elected species, including any claims

subsequently added. An argument that a claim is allowable or that all claims are

generic is considered non-responsive unless accompanied by an election.

3. Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the

elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following

manner:

Species I: claims 1-8

Application/Control Number: 10/580,301 Page 3

Art Unit: 2624

Species II: claims 9-13

The following claim(s) are generic: **None.**

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Species I requires a method of determining the structural data of a prototype for a lightweight technical structure, comprising the method steps:

preparing the relevant basic parameters of the technical light weight structure to be produced with respect to the technical problem;

preselecting one or more bio-mineralized unicellular organisms with natural shell architectures suitable for the prepared parameters;

selecting one or more fine structures of the preselected shell architectures most promising for a technical realization;

directly copying the structural data from the selected fine structures;

scaling the copied structural data to the basic parameters of the lightweight technical structure to be produced;

combining and adapting the scaled structural data to a set of prototype data for a prototype for the lightweight technical structure to be produced; and optimizing the prototype.

While,

Species II requires "A prototype for a lightweight rim (LF) for an automotive vehicle with an inner rim body (FK) mountable at one side to an axle and with an outer rim bed (FB) connected thereto, with the rim body (FK) being provided with a supporting

Application/Control Number: 10/580,301 Page 4

Art Unit: 2624

spoke structure (SA) and produced by a method for determining the structural data of a prototype for a lightweight technical structure, characterized by a highly symmetric formation of the spoke structure (SA) of a plurality of rib-like radial spokes (RAS) having a high aspect ration of width to depth and a plurality of annular spokes(RIS), with each of several radial spokes (RAS) extending from the rim bed (FB) over only one third of the rim body (FB) and terminating at an annular spoke (RIS)" which is not required by Species I.

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Application/Control Number: 10/580,301 Page 5

Art Unit: 2624

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEELA C. CHAWAN whose telephone number is (571)272-7446. The examiner can normally be reached on 7.30- 5.00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on 571-272-7401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)? If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sheela C Chawan/

5/22/09

Primary Examiner, Art Unit 2624

Application/Control Number: 10/580,301

Page 6

Art Unit: 2624